

## Patent Abstracts of Japan

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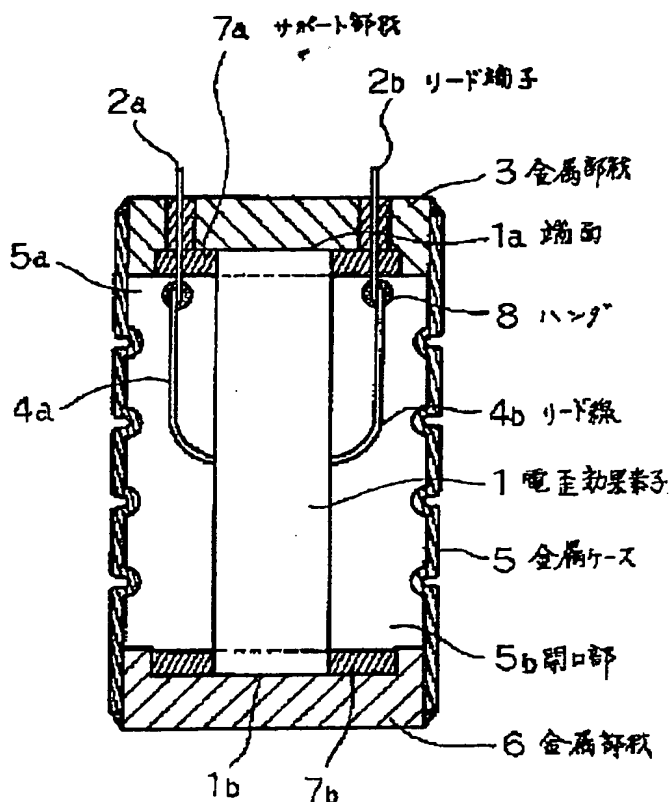
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TITLE : PIEZOELECTRIC ACTUATOR



ABSTRACT : PURPOSE: To enable sealing and positioning to be made with a support member without using an adhesive when fixing an electrostrictive element in a metal case enclosed type piezoelectric actuator by contact bonding with a spring pressure of a metal case.

CONSTITUTION: An electrostrictive element 1 is placed at a support member 7a which has a hollow space which is in a circular shape being slightly smaller than an inner periphery of metal members 3 and 6 and is slightly larger than a sectional area of the electrostrictive element and has a material which is made of an insulator, thus enabling an area between the electrostrictive element and the metal members to be sealed. Therefore, since no adhesive is used, stress near an adhesion portion which is generated due to pulse drive or temperature change is eliminated and generation of exfoliation and crack near the adhered part is prevented.

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